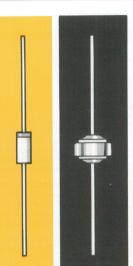


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SEMICONDUCTORS

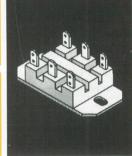


MASTER REPLACEMENT **GUIDE**

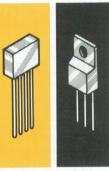
Supplement No. 1 To 212Q



















- **Industrial**
- Commercial
- **Entertainment**
- **Equipment Maintenance** and Repair

Philips ECG



PHILIPS

Introduction

Supplement No. 1 to ECG Semiconductor Master Replacement Guide 212Q provides technical information on 72 new devices, plus over 8,100 additional crosses and changes.

For proper use of this supplement, reference should be made to the Replacement Procedures section in ECG Semiconductor Master Replacement Guide 212Q.

The technical data given in this publication are intended to show safe areas of ECG device operation and level of performance. They are not to be considered limits for new equipment design. We cannot guarantee that the listed items provide an exact replacement in all applications.

Philips ECG PRODUCTS ARE NOT AUTHORIZED FOR USE AS CRITICAL COMPONENTS IN LIFE SUPPORT APPLICATIONS.

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Product Index

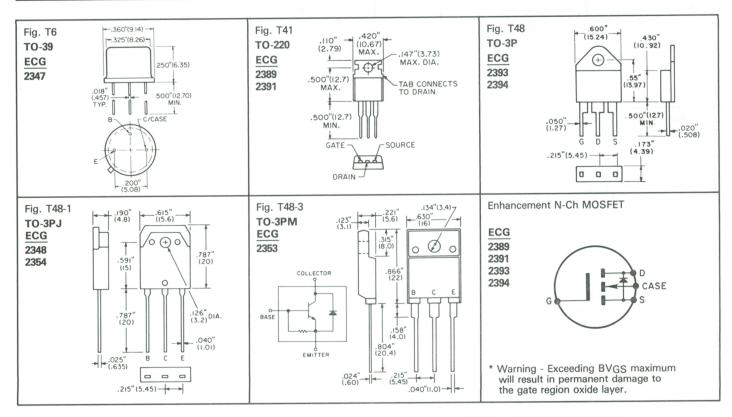
ECG No.	Page No.	Fig. No.	Description		CG lo.	Page No.	Fig. No.	Description
555A 569 890 891M 891SM	2 2 3 3 3	Z11A Z6A L98 L97 L159	D-PIN, VHF Band Switch R-Si, Soft Recovery, Fast Switch, 600V, 3A, 200ns IC-Voltage to Frequency Converter IC-Dual Op-Amp, Internally Compensated IC-Dual Op-Amp, Internally Compensated	704 704 704 704	1 2 3	5 5 5 5	L92 L57C L40 L39 L41	IC-AF PO, 20W, $V_{CC}=\pm 25V$, $R_L=8\Omega$ IC-Dual AF PO, 22 W, $V_{CC}=13.2V$, $R_L=4\Omega$ IC-Bidirectional Motor Driver IC-Bidirectional Motor Driver IC-Switching Regulator Control Circuit
999 1910 2033 2347 2348	3 3 1 1	L16 L17 L111 T6 T48-1	IC-Adjustable Precision Shunt Regulator IC-Pos VR, 9V, 1A IC-4 Unit Darlington Array/Driver (Low Input Active) T-NPN, Si, High Current, Fast Switch, tf = .3µs T-NPN, Si, High Voltage, High Current, Switch, tf = .3µs	704 704 704 704	6 7 8	5 5 5 5	L43A L79A L124 L118A L122	IC-Horizontal Processor IC-Power Regulator IC-TV Small Signal Sub-System IC-TV Chroma Processor/Demodulator IC-TV/Video Sync Generator (CMOS)
2353 2354 2389 2391	1 1 1	T48-3 T48-1 T41 T41	T-NPN, Si, Horizontal Output with Damper Diode, HV, Sw T-NPN, Si, Horizontal Output, HV, Sw MOSFET, N-Ch, Enhancement, Hi Speed Sw MOSFET, N-Ch, Enhancement, Hi Speed Sw	705 705 705 705	1 2 3	5 6 6	L112 L97 L79 L93	IC-PLL Stereo Decoder IC-AF PO, 1W, $V_{CC}=6V$, $R_L=8\Omega$ IC-AF PO, 3W, $V_{CC}=11V$, $R_L=16\Omega$ IC-Dual AF PO, 6.5W, 20W (BTL), $V_{CC}=14.4V$, $R_L=4\Omega$
2393 2394 3014A 6083 7021	1 1 2 2 3	T48 T48 P4A Z41A L72B	MOSFET, N-Ch, Enhancement, Hi Speed Sw MOSFET, N-Ch, Enhancement, Hi Speed Sw LED Panel Indicator, Green R-Schottky Barrier, 45V, 10A Mod-Switching Regulator	705 705 705 705 705	5 6 7 8	6 6 6 6	L126C L146 L80B L43C L126B	IC-Single Chip TV Signal Processor IC-Dual AF PO, 1.2W, $V_{CC} = 9V$, $R_L = 8\Omega$ IC-Vertical Deflection Output IC-TV SIF/AFT/RF AGC IC-Single Chip TV Signal Processor
7022 7023 7024 7025 7026	3 3 3 3	L67C L67C L60A L65A L60A	Mod-VCR Positive DC, VR Mod-VCR Positive DC, VR Mod-VCR Positive DC, VR Mod-Switching Regulator Mod-VCR Positive DC, VR	705 706 706 706 706	0 1 2	6 7 7 7	L92 L118A	C-Dual BTL AF PO, 14W, V_{CC} = 13.2V, R_L = 8 Ω C-Single Chip TV Signal Processor C-Dual AF PO, 5.8W, V_{CC} = 12V, R_L = 3 Ω C-Vert Defl Circuit/Sync/H-V Osc/X-Ray Protect C-Vert Defl Circuit/Sync/H-V Osc/X-Ray Protect
7027 7028 7029 7030 7031	4 4 4 4	L70C L67C L162 L69A L70B	Mod-VCR Positive DC, VR Mod-VCR Positive DC, VR Mod-Dual AF PO, 100W, $R_L = 8\Omega$, $V_{CC} = \pm 51V$ Mod-AF PO, 50W, $R_L = 8\Omega$, $V_{CC} = \pm 35V$ Mod-AF PO, 100W, $R_L = 8\Omega$, $V_{CC} = \pm 51V$	706 706 706 706	5 6	7 7 7 7	L76C L124D L43B L36	IC-VCR Loading/Bi-Directional Motor Driver IC-Vid/Chroma/Horiz-Vert Drvr/Osc/Sync/X-Ray Protect IC-Dual Audio/Video Electronic Sw IC-VIF/Amp/IF Det/AGC
7032 7033 7034 7035 7036	4 4 4 4	L75D L70D L67C L60A L60B	Mod-AF PO, 120W, R _L = 8Ω , V _{CC} = $\pm 55V$ Mod-Switching Regulator Mod-VCR Positive DC, VR Mod-VCR Positive DC, VR Mod-VCR Positive DC, VR	706 706 707 707	9	7 7 7 7	L92A L35 L92A L93A	IC-Dual AF PO, 13W, $V_{CC}\!=\!28V$, $R_L\!=\!8V$ IC-PLL Hi Speed Divider with ECL Output (1/128, 1/136) IC-Dual AF PO, 6W, $V_{CC}\!=\!20V$, $R_L\!=\!8\Omega$ IC-Bi-Directional Motor Driver, $I_0\!=\!2A$
7037 7038 7039	4 4 5	L60A L69A L92B	Mod-VCR Positive DC, VR Mod-VCR Positive DC, VR IC-TV Vertical Deflection Output	707 707 707	3	8 8 8	L115 L79A L65A	IC-Dual Tandem Electronic Attenuator IC-Power Regulator Mod-VCR Positive DC, VR

Bi-Polar Transistors (Maximum Ratings at T_C = 25°C)

ECG Type	Description and Application	Collector To Base Volts BVCBO	Collector To Emitter Volts BVCEO	Base to Emitter Volts BVEBO	Max. Collector Current IC Amps	Max. Device Diss. P _D Watts	Freq. in MHz f _t	Current Gain h _{FE}	Packa Case	Fig.
ECG2347	NPN-Si, Hi Current, Sw, tf = .3 µsec Typ	120	80	6	4	1	50	40 min	TO-39	Т6
ECG2348	NPN-Si, HV, Hi Current, tf = .3 μsec Typ	900	800	7	10	150	15	8 min	TO-3PJ	T48-1
ECG2353	NPN-Si, Horiz Sw w/Damper Diode, tf = .3 μsec Max	1500	800	6	10	70	78 11	8 min	TO-3PM	T48-3
ECG2354	NPN-Si, Horiz Out, HV, Sw, tf = .2 µsec Max	1500	800	6	10	150	Talleton (A	8 min	TO-3PJ	T48-1

Power MOSFET Transistors (Observe MOS Handling)

	Description	Transcon- ductance		Gate to Source Breakdown Voltage	Continuous Drain Current	Gate to Source Cutoff Voltage	Drain to Source Resistance	Input Cap C _{iss}	Device Dissipation @T _C =25°C P _D	Pa	nckage
ECG Type	and Application	gfs mhos	Voltage BV _{DSS}	BVGS	I _D Amps	VGS (off)	^r DS (on) Ohms	pf	Watts	Case	Fig. No.
	MOSFET, N-Ch, Enhancement Hi Speed Switch	8 Min	60 Min	±30 Max*	35	4 Max td(off) = 1 tr = 90 ns	.045 Max 60 ns, td(on)	2000 Max) = 40 ns, tf	125 Max = 130 ns,	TO-220	T41
ECG2391 ▲	MOSFET, N-Ch, Enhancement Hi Speed Switch	2.1 Min	400 Min	±30 Max*	4	4 Max td(off) = 6 tr = 60 ns	1.8 Max 5 ns, td(on)	500 Max = 20 ns, tf =	75 Max - 40 ns,	TO-220	T41
ECG2393 ▲	MOSFET, N-Ch, Enhancement Hi Speed Switch	5 Min	500 Min	±20 Max*	9	4 Max td(off) = 1 tr = 60 ns	.7 Max 70 ns, td(on	1900 Max) = 40 ns, tf	atv. decom	TO-3P (TO-218)	T48
ECG2394 ▲	MOSFET, N-Ch, Enhancement Hi Speed Switch	9 Min	500 Min	±20 Max*	14	4 Max td(off) = 1 tr = 50 ns	.4 Max 50 ns, td(on	3000 Max) = 35 ns, tf		TO-3P (TO-218)	T48



General Purpose Rectifier

ECG Type	Description		Peak Reverse Voltage PRV Max V	Average Rectified Forward Current IO Max	Forward Current Repetitive Peak IFRM Max	Reverse Recovery Time trr	Forward Voltage Drop Max VF	AFC	Fast Sw	Gen Purp	Fast Recovery	Fig.
ECG569	Fast Sw, Soft Recovery	Si	600	3 A	100 A	200 ns	1.1 V		•	•	•	Z6A

Schottky Barrier Rectifier

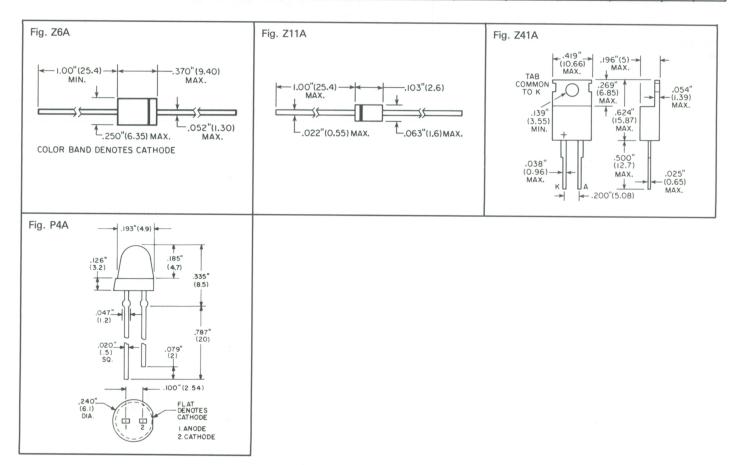
ECG Type	Peak Reverse Voltage PRV (V)	Average Rectified Forward Current I _O (A)	Surge IFM (A)	TC @ Rated Io Max °C	Forward Voltage Drop @ Rated I _O VF (V)	Fig. No.
ECG6083	45	10	150	+ 120	.60	Z41A

PIN Diode

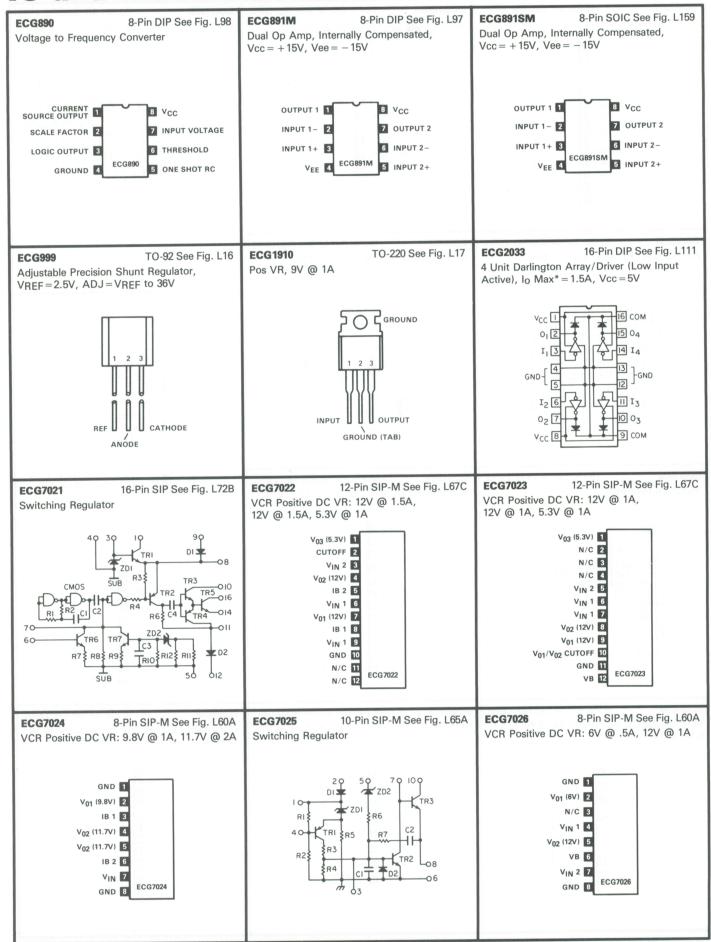
ECG Type	Description and Application	Max. Power (mW)	V (BR) R Min. (Volts)	IR Max. (nA)	CT Max. (pf)	LS Typ. (nH)	RA Max. (Ohms)	Fig. No.
ECG555A	Si PIN Diode, Gen Purp & VHF Switch	250	35	100	1.2		0.7	Z11A

Discrete LED Indicators

ECG No.	Description/Application	Viewed Color	Forward Voltage VF (V)	Reverse Voltage VR (V)	Max DC Forward Current IF (mA)	Maximum Power Diss. PD (mW)	Typical Viewing Angle Degrees	Typical Luminous Intensity MCD	Qty Per Pkg	Fig.
	Panel Circuit Indicators, Low Drive Power, High Intensity Visible Emission	Green	2.8	4.0	25	70	30	10	2	P4A

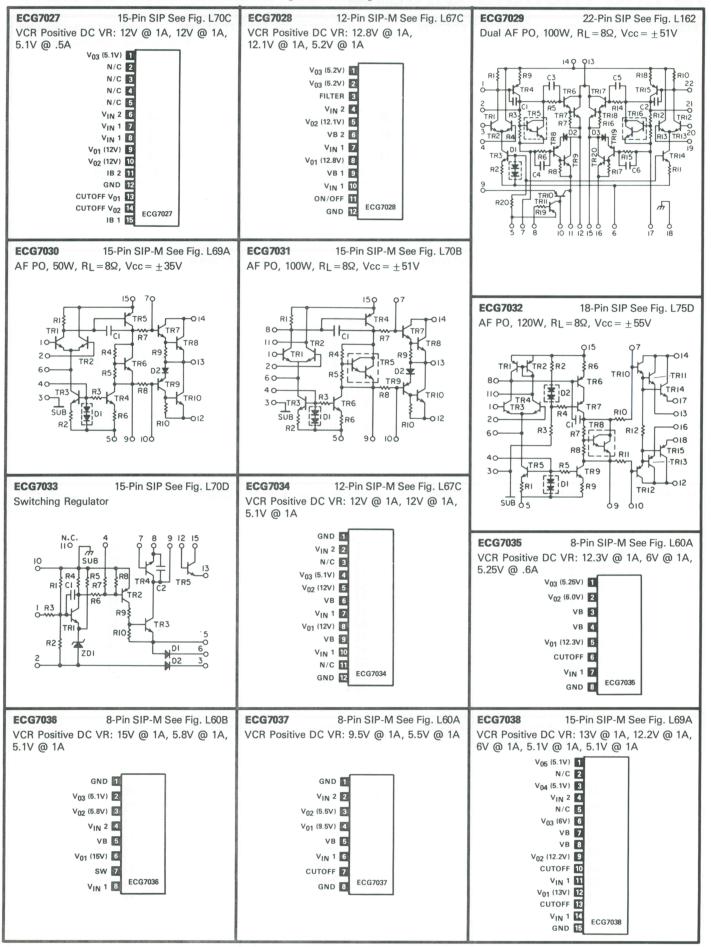


IC and Module Circuits

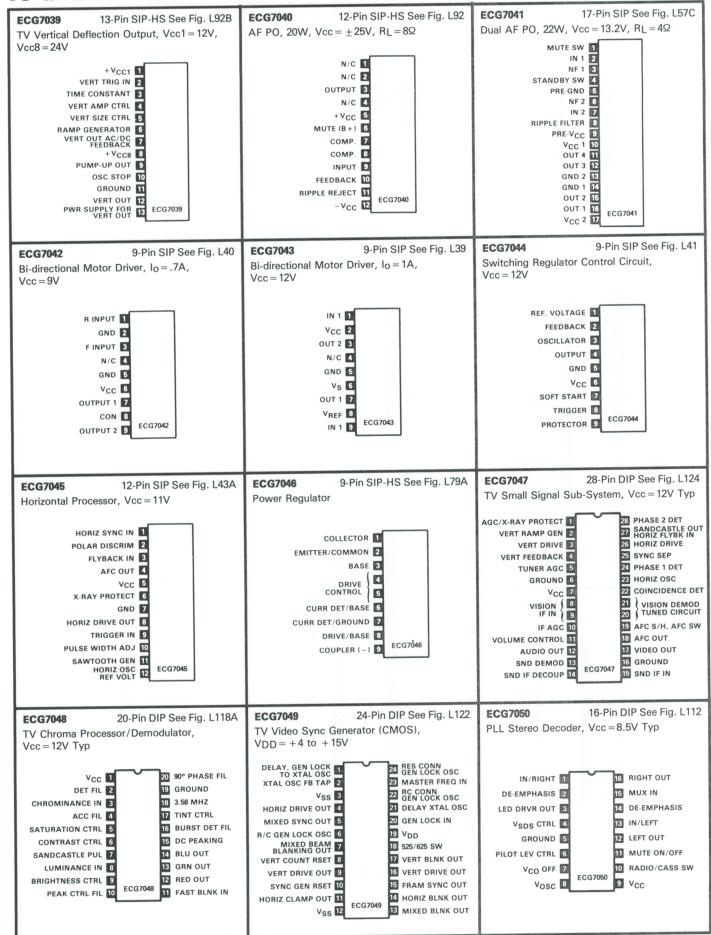


The ECG products shown above are intended for replacement use only. Detailed specifications are not available.

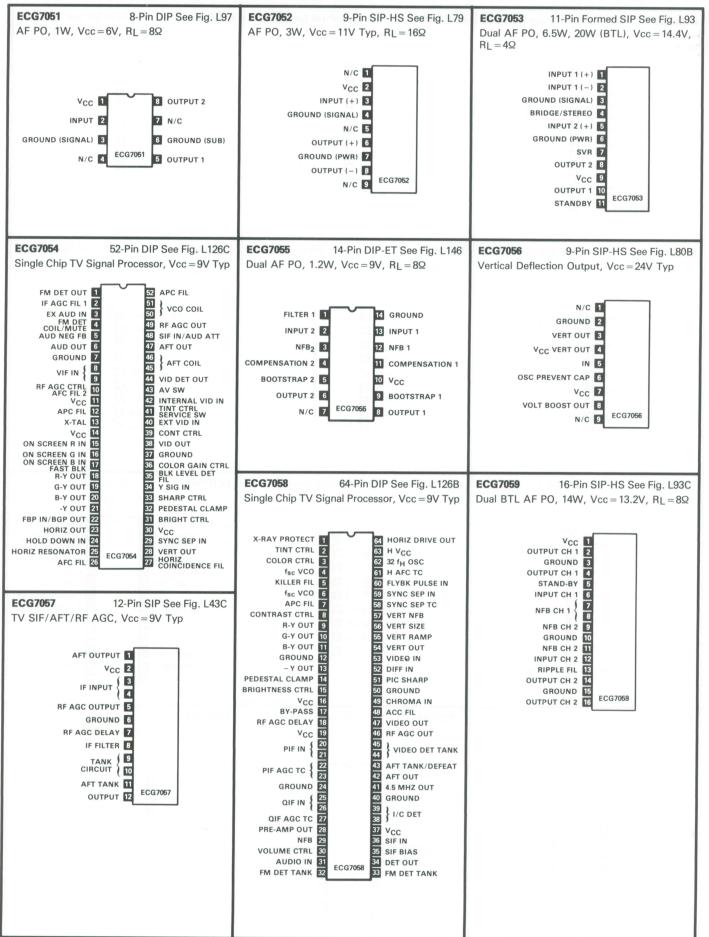
* Io Max = Current Per Transistor.



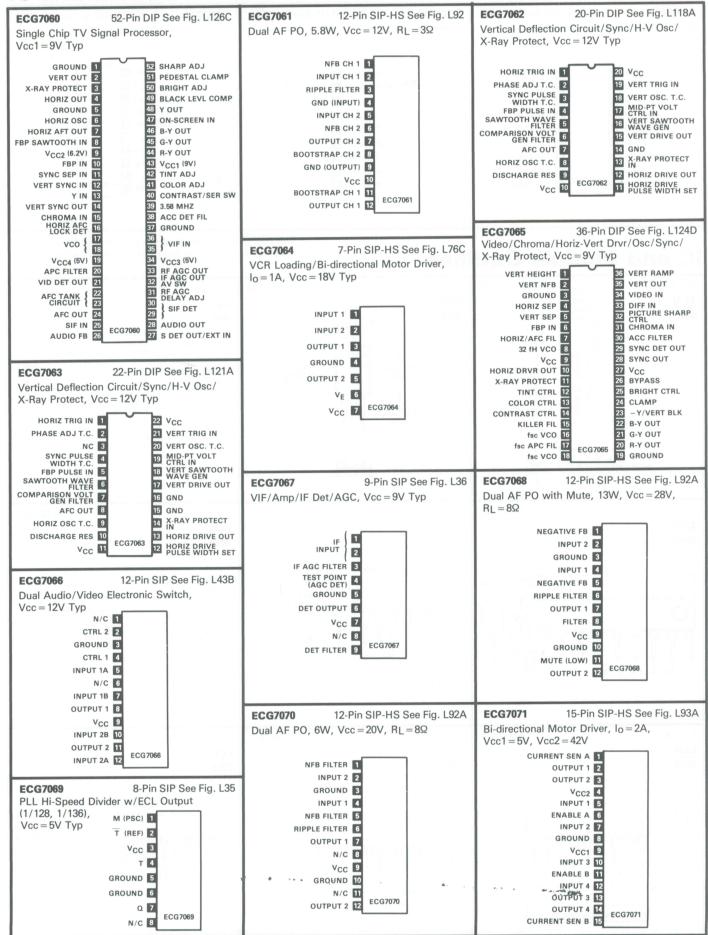
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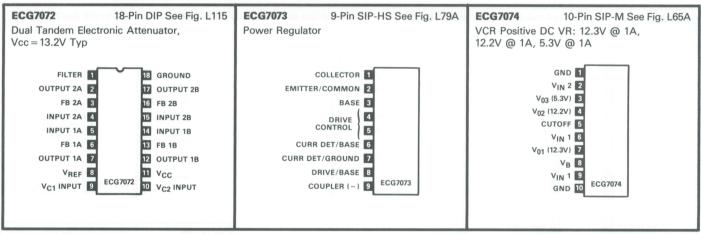
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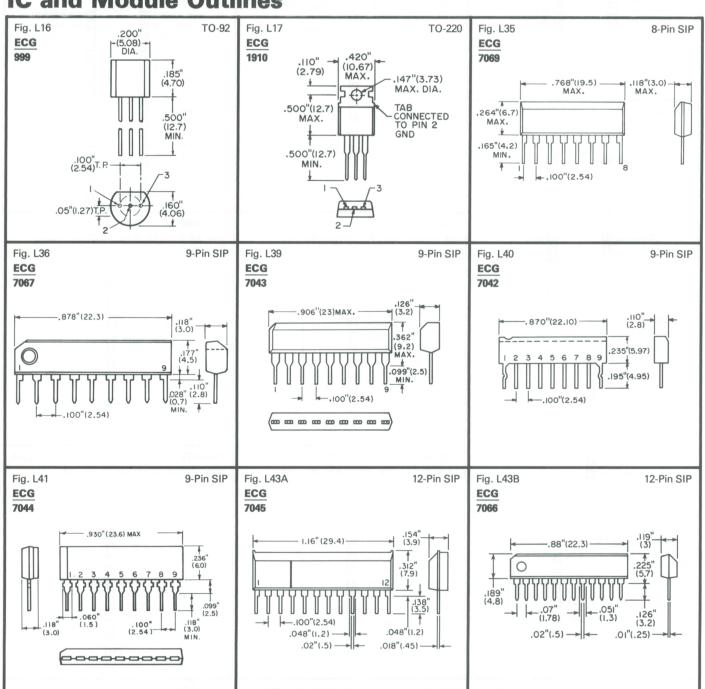


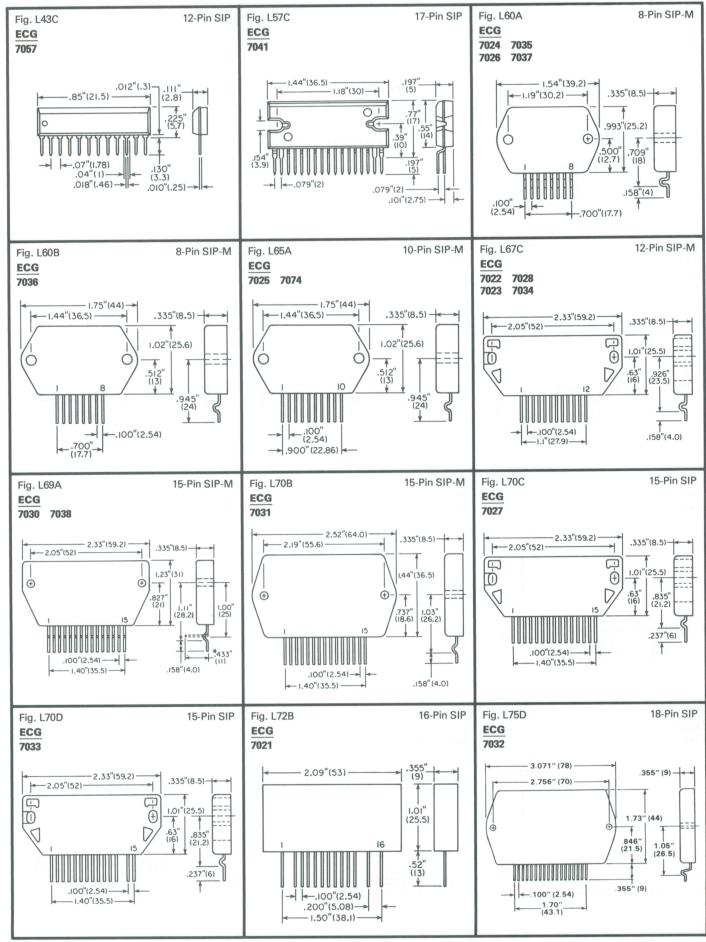
The ECG products shown above are intended for replacement use only. Detailed specifications are not available.

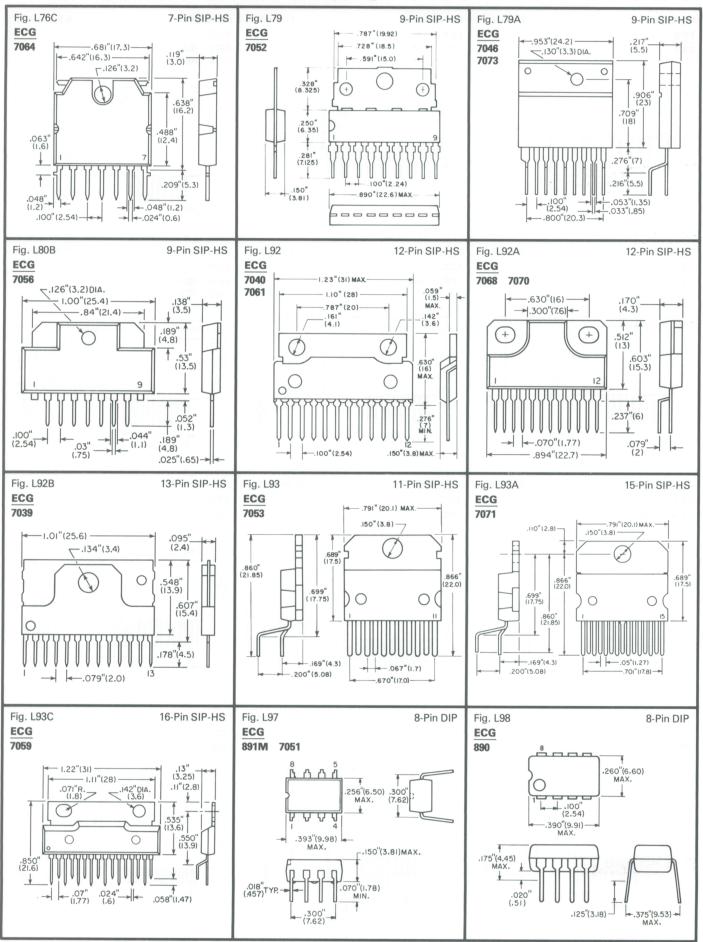


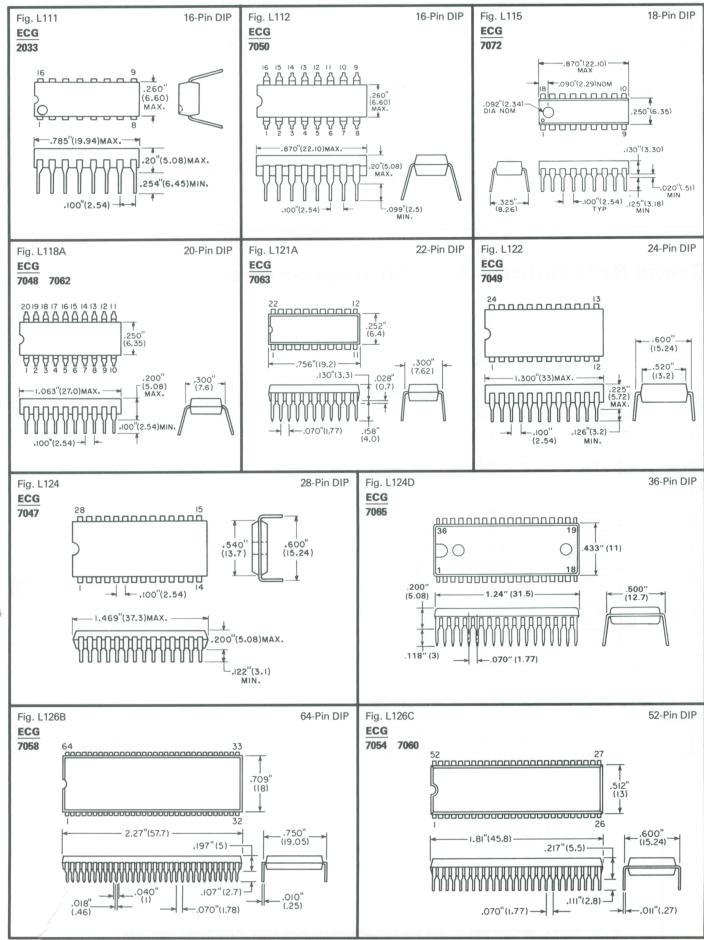
IC and Module Outlines

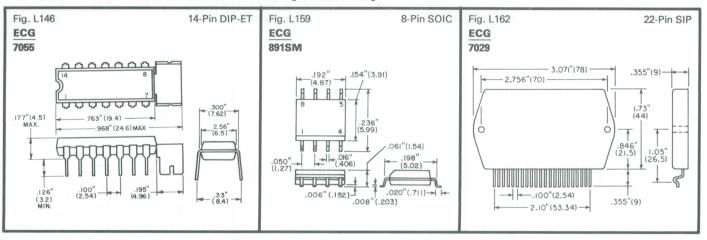
The ECG products shown above are intended for replacement use only. Detailed specifications are not available.











Cross Reference – Additions/Changes

09-302166 through 2SD2251

				_				3			07-5021	too tinoug	II AUDAAUI
To Be Replaced	ECG Replacement	To Be Replaced	ECG Replacement	To Be Replaced	ECG Replacement	To Be Replaced	ECG Replacement	To Be Replaced	ECG Replacement	To Be Replaced	ECG Replacement	To Be Replaced	ECG Replacement
082-1(NAP-I 082-2(NAP-I 082-3(NAP-I 082-4(NAP-I 0847T0R402 0847TR2501	2347 2347 C) 815 C) 815 C) 815 C) 815 C) 815 1 15020 15019	2N2658 2N2849 2N2849-1 2N2850 2N2850-1	2347 2347 2347 2347	2SA909 2SA933SRN 2SA940-R-E(L 2SA1216 2SA1262(Aud	2RS 290A R 290A R 290A 68 290A B-SAN-5) 398 59 dio) 242	2SC215 2SC223 2SC224 2SC225 2SC234 2SC235	2347 2347 2347 2347 2347 2347 2347 2347	2SC3449 2SC3449L 2SC3449M 2SC3450 2SC3450L 2SC3450M		2SC4125 2SC4131 2SC4138 2SC4139 2SC4199 2SC4199A	2311# 2311# 2354# 2354#		
1A0013 1A02100-01/ 1G4B1 1J4B1 1N469	A	2N2853 2N2853-1 2N2854 2N2854-1	2347 2347 2347 2347 2347 2347 2347 2347	2SA1333 2SA1386 2SA1488A 2SA1492 2SA1643		2SC291 2SC292 2SC293 2SC310 2SC310B 2SC310C	2347◆	2SC3459K 2SC3459L	2348 2348 2348 2348	2SC4298	2348 ♦	2SD882PM 2SD1142 2SD1143 2SD1173 2SD1174 2SD1175 2SD1208	2302 ♦ 2302 ♦ 2302 ♦ 2335 ♦
1N3509		2N2856-1 2N2890 2N2891 2N2896 2N2983		2SA1670 2SA1671 2SA1672 2SA1693 2SA1694 2SA1725 2SA1726 2SB641-QR	391# 37# 391# 37 55# 55		2347 2347 2347 2347 2347 2347/427 2347/427 2347/427 2347/427	2SC3460 2SC3460K 2SC3460L 2SC3461 2SC3461 2SC3461L 2SC3461M	2348 2348 2348 2348	2SC4301 2SC4302	2309# 2309 ♦ 2309 # 2324 2324 2348 ♦ 2348 •	2SD1260 2SD1260A 2SD1260AR 2SD1260R 2SD1261 2SD1261AR 2SD1261AR	
1N4936 1N4936GP 1N4937 1N4937GP	569 ♦ 569 ♦ 569 ♦	2N3419 2N3420 2N3421 2N3439S 2N3506		2SB641-R 2SB641RS 2SB641S 2SB709AQR\ 2SB852K 2SB897		2SC697AH 2SC697AJ 2SC697AJ 2SC697B 2SC697D 2SC697E	2347/427 2347/427 2347/427 2347/427 2347/427 2347/427 2347/427	2SC3637 2SC3688 2SC3723		2SC4327 2SC4354 2SC4355 2SC4381 2SC4386 2SC4387 2SC4388	375# 36# 36# 2328	2SD1484K 2SD1548 2SD1649-CT 2SD1706(Au 2SD1706R(A	2354 TV-YB2331
1N5061 1N5061GP 1N5062 1N5062GP	506 506 506 506 506 506 506 555A	2N4000 2N4001 2N4260 2N4300 2N4877 2N4895	2347♦ 2347 2347 395 2347 2347 2347 2347 2347 2347	2SB938 2SB938A 2SB938AR 2SB938R 2SB1050	254 ♦ 254 ♦ 12 ♦	230 1003 IAC		2SC3796 2SC3796A 2SC3797 2SC3797A 2SC3798	2348 2348 2348 2348	2SC4442 2SC4445 2SC4466 2SC4467 2SC4494 2SC4495		2SD1791 2SD1793 2SD1795 2SD1849 2SD1880 2SD1881	
1SR77-400 1SR77-600 1SS103 1SS136		2N5148 2N5150 2N5152 2N5154 2N5189		2SB1154(Auc 2SB1154R(Au		2SC1740SRC 2SC1860 2SC1860K	DRS 85 (85 85 2347♦ 2347♦ 2347♦ 2347♦ 2347♦ 2313	2SC3811Q 2SC3811R 2SC3822		2SC4517 2SC4517A 2SC4518 2SC4531 2SC4542 2SC4544	54 2339 2339	2SD2014 2SD2015 2SD2024 2SD2025 2SD2032 2SD2033	
1T710 1T715 1T810 1T815		2N5488		2SB1353A 2SB1355 2SB1356	2344# 398�	2SC2238-0 2SC2238AV 2SC2238Y 2SC2712GR.	LB-SAN-5) .375 	2SC3856 2SC3874 2SC3875S 2SC3892A 2SC3893A 2SC3897	390# 2328 2311 2408 2353 2353 2354#	2SC4557 2SC4575	2348 2312 2337 157◆	2SD2036 2SD2037 2SD2038 2SD2039 2SD2040 2SD2041	375 152 152 377 152 377 152 261 2332
2N2033 2N2034 2N2347 2N2405 2N2405L	7010 dio) 2306# 2347 2347 2347 2347 2347 2347	2N5784 2N5785 2N5786 2N6156 2N6254 2N6560		2SB1359 2SB1360 2SB1367 2SB1496	378 ♦ 262 ♦ 262 ♦	2SC3090L 2SC3090M 2SC3198L 2SC3305 2SC3307		2SC3927 2SC3945	2311♦ 2348 376 2348♦ 2348♦ 2354# 2354# 2331♦	2SD78C 2SD78D		0000040	

General Cross Reference Section Notes:

- (1) Numbers in () indicates the number of replacement devices required to replace original type.
- (2) / numbers indicate more than one ECG type required for this application.
- (3) (CP) Complementary Pair.
- (4) When a specific device part number is not listed in the directory, refer to the technical data for the ECG device of that type to find an equivalent replacement.
- 5) When basing of original part differs from ECG replacement, basing for original part is shown in parentheses () after the part number. For example, the 2SA509A(ECB) is replaced by ECG159 which has "EBC" basing.

To Be Replaced	ECG Replacement	То Ве	ECG eplacement	To Be Replaced	ECG Replacement	To Be Replaced	ECG Replacement	To Be Replaced	ECG Replacement	To Be Replaced	ECG Replacement	To Be Replaced	ECG Replacement
2SD2252 2SD2306 2SD2307 2SK311 2SK349 2SK350 2SK399	2354# 261 261 2391 2394 2394 2394 2394 2394 2394 2394	46-133389-3 46-133692-3 46-133697-3 46-721829-3 46-861161-3 46-861265-3 46-861336-3	3092 3092♦ 3043 891M 3099 558 5030A 5020A	407-054-4808 407-070-8408 407-088-6502 407-124-5209 407-124-5605 407-124-5605 407-124-5803 407-124-6404	5022A 5018A 587 580 587 587 580 552	1816-1137	74\$288 74\$387 74\$570 74\$474 74\$573 74\$288 74\$454 74\$287	1820-1079 1820-1081	74179 75189 74S153 75453B 74367 7411 4501 6880	1820-1417 1820-1418 1820-1419		1820-1674	
2SK413 2SK414 2SK527	2393	46-861627-3 46-861634-3 46-861649-3 46-861717-3 46-861718-3 46-861720-3 46-861864-3 46-861868-3	586	409-047-5700 409-047-8602 409-135-5407 409-146-7001 409-173-2802		1816-1142 1816-1153 1816-1160 1816-1162 1816-1163 1816-1174 1816-1382 1816-1436	74S474 74S288 74S478 74S478 74S474 74S188 74S571 74S288		8553 4516B 74125 4518B 9334 9809 8552 74LS02	1820-1420 1820-1422 1820-1423 1820-1424 1820-1425 1820-1426 1820-1427 1820-1428	74LS158	1820-1745 . 1820-1746	74LS247 74LS259 74LS138 74LS175 74C42 4001B 4049
2SK556 2SK557 2SK559 2SK560 2SK573 2SK600 2SK641 2SK642		46-862557-3 46-862559-3 46-862611-3 46-862613-3 46-862614-3 46-862615-3 46-862616-3	5047A 5424 145A 5021A 5010A 5011A 5014A	554-3(NAP) 559-1(NAP) 559-2(NAP) 559-3(NAP) 559-5(NAP)			74S573 74S288 74S571 74S478 74S472 74S454 74S288 2107	1820-1194			74LS257	1820-1784 . 1820-1787 . 1820-1793 . 1820-1795 . 1820-1806 . 1820-1813 .	74C74 74LS91 7427 8308 861 74C85 4027B
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To Be Replaced	ECG Replacement	To Be Replaced	ECG Replacement	To Be Replaced	ECG Replacement		ECG eplacement	To Be ECG Replaced Replacement	To Be ECG Replaced Replacement	To Be ECG Replaced Replacement
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To Be ECC Replaced Replace	3	То Ве	ECG Replacement	To Be Replaced	ECG Replacement		ECG eplacement		ECG eplacement	To Be Replaced Re	ECG eplacement	Replaced Repla	CCG accement
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To Be ECG Replaced Replacement	To Be ECG Replaced Replacement	To Be ECG Replaced Replacement	To Be ECG Replaced Replacement	To Be ECG Replaced Replacement	To Be ECG Replaced Replacement	To Be ECG Replaced Replacement
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933227410112 283 933227710112 165 933227800112 94 933228380112 160 933230320112 130 933230330112 130 933230350112 332MCP 933230660112 263	933397000112 3007 933408590112 271 933408600112 270 933410710112 594 933410710115 594 933410710215 594 933410710215 271 933410710215 271	933508390215 .2407 933508400212 .2407 933508400215 .2407 933508400235 .2407 93351250112 .47 933514830112 .3041 933515250156 .2406 933516250212 .2406	933665120115 2412 933665120212 2412 933665120215 2412 933665130156 2413 933665130212 2413 933665130215 2413 933665130215 2413 933676750112 2319 933676760112 2319	933984190112 7048 933984340112 1850 933987980112 1852 935000450112 7047 935003040112 2057 935003050112 2057 935003050112 2057 935004040112 7052	BA5406	BUS23-S. 2319♦ BUV47AF 2311# BUV47F. 2311# BUV48AF 2311# BUW36. 2311# BUW36. 2319 BUW84. 2313♦ BUW85. 2313♦
933230690112263 + 264(CP) 933234550112253 + 254(CP) 933235020112374 9332377540112580 ◆ 933237770112123AP 933237790112123AP 9332377901123007	93341930112 270 933414640112 2319 933418070112 2428 933418070115 2428 933418080112 2428 933418080115 2428 933418080135 2407 933418080235 2428	933516250215 2406 933516260112 2407 933516260212 2407 933516260215 2407 933516270112 2431 933516270115 2431 933516280112 2431 933516280115 2431	933676770112 2319 933676780112 2319 933676790112 2319 933676800112 2319 933676810112 2319 933676820112 2319 933676820112 2319 933676840112 2319	935022080112	BAT82 585 ♦ BAT83 585 ♦ BAT85 585 ♦ BC300 2347 ♦ BC3420 2347 ♦ BC440 2347 BC4404 2347	BUW133. 2311 BUW133A 2311 BUZ10. 2389 BUZ10A 2389 BUZ11 2389 BUZ11 2389 BUZ11A 2389 BUZ11F1. 2389 BUZ11S2 2389
933243600112 199 933243630112 159 933246760112 2345 933246760127 2345 933246770112 2346 933246770127 2346 933246770127 2345 933246780112 2345	933418090112 2428 933418090115 2428 933418100112 2428 933418100115 2428 933418110115 2429 933418110115 2429 933418120112 2429 933418120115 2429	933516290112 2430 933516300112 2430 933516300115 2430 933516300115 2430 93352650112 7001 933533020678 1917 933533020682 1917	933676850112 2319 933678680112 2319 933686020682 966 933692340682 960 933692920112 1803 93369367670112 199 933700590112 1.785 933700710112 .7001	A933SRN(Trans) .290A A1216(TRANS) .59 A1262(Audio) .242 A1310(Trans) .2362 A1310R(Trans) .2362 A1333(Trans) .2363 A1386(Trans) .2306# A1488A(Trans) .292#	BC441-4. 2347 BCR5AM-8. 5608 BCR5AM-12. 5609 BCR5DM-8. 5638 BCR5DM-12. 5620 BCR6AM-12. 5609 BCX38A(EBC). 2341 ♦ BD131. 184 ♦	BUZ11S2F1 2388# BUZ46 2386 BUZ71F1 66# BUZ76 2391 BUZ76A 2391 BUZ76A 23914 BUZ353 2394 BUZ354 2393 BY203/12 558
933246790127 2346 933246800127 2345 933246810112 2346 933246810127 2346 933246820112 2345 933246820127 2345 933246830112 2346 933246830127 2346	933418130112 2429 933418130115 2429 933418140112 2429 933418140115 2429 933418590112 253 254(CP) 933423290112 3007 933423290112 1760 933429100112 5050A	933551560115 2402 933551560212 2402 933551560215 2402 933560450112 1804 933582570112 2300 933582750112 2311 9335889500112 2407 933589500212 2407	933700830112 1804 933701460112 287 933702590112(ECB) 287 933702590412(ECB) 287 933702590412(ECB) 187A 933702610412 47 933702940112 2318 93370294012 2318	A1492(Trans) .2329 A1643(Trans) .378# A1670(Trans) .391# A1671(Trans) .37# A1673(Trans) .37# A1693(Trans) .391# A1694(Trans) .37 A1725(Trans) .55#	BD132 185* BD135-6 373 BD136-6 374 BD136-10 374 BD136-10 392 BD249A 392 BD249A 392 BD249B 392 BD249C 392	BY203/16 558 BY203/20 525 BY204/4 558 BY204/8 558 BY204/10 558 BY231/800 506 BY231/1000 506 BY231/1200 506
933258010112 109 933258200112 109 933258840112 116 933259350112 399 933259360112 288 933259610112 502171 93326104012 294 293(CP) 933261450112 1785	93342981011250 933430930112284 933430940112285 9334309501123010 9334309901123007 933435610112552 933435620112552 933435601121804	933589500215 2407 933589510115 2407 933589510212 2407 933589510215 2407 933589520212 2406 933589520215 2406 933589530212 2406	933703530112(CBE)159 933703530412(CBE)159 93370350412(CBE)123AP 933703550412(CBE)123AP 933703570112(CBE)123AP 933703570412(CBE)123AP 933703570412(CBE)123AP	A1726(Trans)	BD250 393 BD250A 393 BD250B 393 BD250C 393 BP398 288 BF421(ECB) 288 BF421S(ECB) 288 BF421S(ECB) 287	BY231/1400 506 BY231/1500 506 BY258/100 576 BY258/200 576 BY258/400 576 BY258/600 577 BY258/600 577 BY259/500 552
933262540112 165 933263510112 123AP 933263510747 199 933263530112 123AP 933264490112 3010 933264470112 254 933264470112 130	933436250112 3025 933448000112 54 933448000127 54 933448010112 55 9334480101127 55 933448020112 54 933448020127 54 933448030112 55	933589540112 2408 933589540212 2408 933589540215 2408 93358950212 2408 93358950215 2408 93358950215 2408 933589560212 2408 933589560215 2408	933709350112 1785 9337093500682 968 933716390112 1804 933716890112 1804 933718010112 1803 933718020112 1785 933723505112 2401 933722350215 2401	AN1324 987 AN1324NS 987SM AN1358S 928SM AN1431T 999 AN1741S 941SM AN4558 778A AN5160K 7060 AN5160K 7060	BF423S(ECB) 288 BF491 288 BF492 288 BF493 288 BF496 108 BF857A 171 BF858A 171 BF859A 171	BY295/200 552 BY295/300 552 BY295/400 552 BY295/450 552 BY295/600 552 BY295/600 552 BY527 506 BY550-50 5812 BY550-100 5812
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933271560127 2327 933271570112 2327 933271570127 2327 933271590112 3020 933272620112 164 933273330112 3022 933276220112 165 933276880112 3020	93344807012755 93344808011254 93344808012754 93344809012755 9334450730127(ECB).187A 933450730127(ECB).2344 9334519601122344	933589610212 2408 933589610215 2408 933589620112 2408 933589620115 2408 933589620215 2408 933589620215 2408 933589630212 2408 933589630212 2408	933737140212 2410 933737140215 2410 933737160212 2411 933737160215 2411 933746340412(CBE) 123AP 933746350412(CBE) 123AP 933746350412 284 933746370412 388	AN6564 987 AN6564NS 987SM AN65673 941S AN7147 7061 AN7147N 7061 AN7173K 7059 AN7805F 960#	BFX29 129 BFX30 129 BFX30 129 BFX34 2347 BO320440 7064 BR32J01 5313 BS42 2347 BS543 2347 BS545 2347	BYD33G 569 ♦ BYD34J 569 ♦ BYD34D 569 ♦ BYD34G 569 ♦ BYD34J 569 ♦ BYT3-600 569 BYT51B 580
932280060112 116 9328330112 558 933284610112 284 933284620112 285 932285360112 331 932285370112 332 932286060112 3024 933286070112 3010	933451970112 2344 933451970127 2344 933451980112 2344 933451980112 2344 933451990112 2344 933451990112 2344 933452000112 2343 933452000112 2343	933589640112 2408 933589640115 2408 933589640212 2408 933589640215 2408 933589650215 2408 933589650215 2408 933589660212 2408 933589660215 2408	933746380412(CEB) .229 933746400112 .382 933746400412 .382 933751790112 .1803 933754550112 .1804 933760880112 .54 933769890112 .1786 933769350112 .7001	AN7809 1910 AN7812F 966# AN7818F 958# AND103G 3014A APT45181BN 2393◆ APT501R1BN 2393◆ APT3505BN 2394◆ APT3580BN 2394◆	BSV60 2347 BSV64 2347 BSW67 2347* BSW68 2347* BSX61-10 2347 BSX62 2347 BSX62B 2347 BSX62C 2347 BSX62C 2347	BYT51D 580 BYT51G 580 BYT51J 580 BYT51K 506 BYT51K 506 BYT52A 569◆ BYT52B 569◆ BYT52D 569◆

To Be Replaced	ECG Replacement	To Be Replaced R	ECG eplacement	To Be Replaced	ECG Replacement	To Be Replaced	ECG Replacement	To Be Replaced	ECG Replacement	To Be Replaced	ECG Replacement	To Be Replaced	ECG Replacement
BYT52G BYT52J BYT85/600 BYT86/600 BYV12 BYV13 BYV14 BYV95		C3460K(Trans) C3460L(Trans) C3460M(Trans) C3461 C3461K(Trans) C3461L(Trans) C3461M(Trans) C3481(Trans)	2348 2348 2348 2348 2348 2348 2348 2302	D78C(Trans) D78D(Trans) D79(Trans) D79A D79B D79C D79D D558(Trans)	2347/427	F5KQ40 F10KQ30 F10KQ40 F113A F113B F113B F113E F113F		GZS4.7 GZS5.1 GZS5.1Y GZS5.6 GZS5.6Y GZS6.2 GZS6.2Y GZS6.2Z	5009A 5010A 5010T1 5011T1 5013T1 5013T1 5013T1	K310(FET) K311(FET) K346(FET) K349(FET) K350(FET) K399(FET) K400(FET)	2391 2391 • 2390 2394 2394 2394 • 2393 • 2393 •	KTC3879	382 2408 152 377
BYV95A BYV95B		C3552(Trans) C3552K(Trans) C3552L(Trans) C3552M(Trans) C3637(Trans) C3688(Trans) C3723(Trans) C3729(Trans)	2348 2348 2348 2354 2354 237 2324	D601AQRW(Tran D638PQR(Tran D797 D797-O D797-Y D811 D882PM(Trans) D1138(Trans)	ans)2408 s)18 387 387 387 2310 184	F114F FDH400 FDH444 FESF16AT		GZS10	5019T1 5019T1 5021T1 5021T1 5022A 517◆ 517◆	K412(FET) K413(FET) K414(FET) K527(FET) K532(FET) K549(FET) K551(FET)	2394 2393♦ 2393♦ 2389# 2390 2380 2388 2394	L298KV L298N L298V L7809 L7905CV L7908CV L7912CV L7915CV	7071 7071 7071 1910 961 965 967
BYW55 BYW56 BYW82 BYW83 BYW84		C3737(Trans) C3738(Trans) C3796(Trans) C3796A(Trans) C3797(Trans) C3797A(Trans)	2348 2354# 2348 2348 2348 2348	D1142(Trans) D1143(Trans) D1173(Trans) D1174(Trans) D1175(Trans) D1208(Trans) D1260(Trans)	389 238 2302 2302 2335 253	FESF16DT FF023800 FF023900 FR302G FSP307566 GBL005 GBL01	599# 527A 527A 588 517♦ 5318♦	H2612-10 H2612-12 HA1397 HA17324 HA17324F	517	K557(FET) K559(FET) K560(FET) K573(FET) K600(FET) K641(FET) K642(FET) K643(FET)	2394 2394♦ 2394♦ 2394♦ 2389 2394 2394 2394	L7918CV L7924CV LA4182 LA4183 LA4461N LA7222 LA7510	
BYW95A BYW95B BYW95C BYX82 BYX83 BYX84 BYX85	569♦ 569♦ 569♦ 580 580 580 580 580 580	C3822(Trans)	2348 2348 2348 123AP •123AP •2337 2311#	D1260A(Trans) D1260AR(Trans) D1260R(Trans) D1261(Trans) D1261A(Trans) D1261AR(Trans) D1261AR(Trans) D1450(Trans) D1456	253 \ 	GBL02	5318 5319 5319 5320 5322 5322 5324	HEF4521BP HEP590 HEPC6091 HEP-C6091G. HEP-S3002		K644(FET) K673(FET) K673(FET) K682(FET) K683(FET) K723(FET) K724(FET)	2394 2389♦ 2389 2394 2394 2394 2393 2394 2394♦	LA7670 LA7835-TV LA7838 LA7851 LA7852 LM340KC-12(1 LM340KC-12(1 LM340KC-15(1 LM358S	
BZX79A5V1 BZX79A5V6 BZX79A6V2 BZX79A10 BZX79A12 BZX79F5V1 BZX79F5V1 BZX79F6V2		C3851A(Trans) C3853(Trans) C3856(Trans) C3874(Trans) C3892A(Trans) C3893A(Trans) C3897(Trans)		D1484K(Trans) D1548(Trans) D1706(Audio) D1706R(Audio) D1710(Trans) D1781K(Trans) D1782K(Trans) D1791(Trans)		GBPC12-06 GBPC12-08 GBPC12-10 GBPC15-005. GBPC15-01 GBPC15-04 GBPC15-04 GBPC15-06		HVPR12-10 HVPR12-12 HVPR12-14 HVPR15-08 HVPR15-10 HVPR15-12		K735(FET) K755(FET) K761(FET) K762(FET) K764(FET) K764(FET) K765(FET) K767(FET)	2393 ♦ 2385#	LM431ACZ LM709H LM833D LM833M LM833N LM1877-9 LM1877N-9	909 891SM 891SM 891M 990 990
C93-02 C122E C122M C156A(SCR) C156B(SCR) C156C(SCR)	5019T1 5021T1 6246# 5466 5466 5368♦ 5368♦	C3982(Trans) C3982A(Trans) C4096(Trans) C4111(Trans) C4122(Trans) C4123(Trans)	2348 376 2348 • 2354# 2354# 2353 •	, ,	270#2316#2353235323532354#2343#2326	GBPC15-08 GBPC25-010 GBPC25-005. GBPC25-01 GBPC25-04 GBPC25-06 GBPC25-08		HVPR15-14 HVR-1X-41A HVR-3B HVR-5A HVR5AS HVR-5AS HVR-5AS HZ3.6CPTA		K790(FET) K806(FET)	2393♦ 2393♦ 2387# 2394 2394 2394♦ 2394♦ 2387#	LM2907N LM2907N-8 LM33256-15 LN31GPHL LQ6025 LTD6710R LTD6740R LTD6910HR	3024 5679 ♦ 3074 3075
C156D(SCR) C156E(SCR) C156M(SCR) C213(Trans) C214(Trans) C215(Trans) C223(Trans) C224(Trans)		C4124(Trans) C4125(Trans) C4131(Trans) C4138(Trans) C4139(Trans) C4199(Trans) C4199A(Trans) C4232(Trans)	2353♦ 2353♦ 2305# 2311# 2311# 2354# 2354# 2348♦	D2015(Trans) D2024(Trans) D2025(Trans) D2032(Trans) D2033(Trans) D2033A(Trans) D2035(Trans) D2036(Trans)		GBPC25-10 GBPC35-005. GBPC35-01 GBPC35-04 GBPC35-06 GBPC35-08 GBPC35-10 GBPC101		HZ22-01T2 103DA7530N 103S072220 105DE8601B 105DE86540 123S953320 ICLT41C-LN-T ICM7555	955MC	K873(FET)		LTD6940HR M4B31-13 M5216FP M5216FP M5216P M5223P M51802 M54477L MA180	
C225(Trans) C234(Trans) C235(Trans) C235-O(Trans) C235Y(Trans) C291(Trans) C292(Trans) C293(Trans) C310(Trans)		C4235(Trans)		D2037(Trans) D2038(Trans) D2039(Trans) D2040(Trans) D2041(Trans) D2042(Trans) D2042(Trans) D2044(Trans) D2044(Trans) D2081(Trans)		GBPC102 GBPC104 GBPC106 GBPC108 GBPC110 GBPC601 GBPC602 GBPC604	5312 5313 5314 5315 5316 5317 5312 5313	ICM7555CBA ICM7555IPA IGLA6324 INMPC1513HA IO5DE86540 IR3F02 IR3F02N IR3741	955MC 987 1787 7058 891M♦ 891SM♦	K874(FET) K875(FET) K876(FET) K996(FET) K1331(FET) K3010P K3010PG K3020P	2394 2394 2387# 2394 3047\$ 3047\$	MA856TV MA1360H	519 5037A♦ .5019T1 .5021T1♦ .5618
C458(Trans) C669(Trans) C669A(Trans) C697(Trans) C697A(Trans) C697AB(Trans) C697AD(Trans)		C4302(Trans)	2309# 2324 2324 2348 ◆ 2348 2348 377#	D2096(Trans) D2251(Trans) D2252(Trans) D2306(Trans) D2307(Trans) D93013001B		GBPC606 GBPC608 GBPC610 GBPC801 GBPC802 GBPC804 GBPC806 GBPC808	5315 5316 5317 5312 5313 5314 5315 5316	IR9393 IR9393N IR91458 IR91458N IRF720	943M 943SM 778A 778SM 2391♦ 67#	K3021P K3021PG KA301 KA431CZ KA711C	3048♦ 3048♦ 1171 999 911	MBR735 MBR745 MBR1035 MBR1045 MBRF1035 MBRF1035 MBRF1535CT MBRF1545CT	
C697AE(Trans) C697AH(Trans) C697AH(Trans) C697AJ(Trans) C697E(Trans) C697F(Trans). C697H(Trans)	(2347/427)2347/427 2347/427 2347/427 2347/427 2347/427	C4355(Trans) C4381(Trans) C4385(Trans) C4386(Trans) C448(Trans) C4418(Trans) C4421(Trans)	377♦ 375# 36# 36# 2328 2337	DGDSF10C DGGMA01 DGGZA30Y DM74193N DSK21 DSK22 DSK23	46 46	GBPC810 GBPC1005 GBPC6005 GBPC8005 GBU4A GBU4B GBU4G	5310 5317 5312 5312 5312 5329 5329 5329 5329	IRF723FI IRFP340 IRFP341		KA2214 KA2983		MBRF1935CT MBRF2035CT MBRF2535CT MBRF2545CT MBRF3035PT MBRF3045PT MC1458N	6087# 6087# 6087# 6087# 6090# 6090# 778A
C697I(Trans) C697J(Trans) C893(Trans) C933SRX(Tran C1263C2(IC) C1316C(IC) C1473AQH(Tra C1488H(IC)	7055 7055 ans)399 7056	C4434(Trans) C4442(Trans) C4445(Trans) C4466(Trans) C4467(Trans) C494(Trans) C495(Trans) C4511(Trans)	2311# 2337 2309# 300# 36 56# 56#	DSK24		GBU4J GBU4K GBU4M GBU6A GBU6B GBU6D GBU6G	5330 \(\)5331 \(\)5331 \(\)5331 \(\)5329 \(\)5329 \(\)5329 \(\)5329 \(\)5330 \(\)	IRFP353 IRFP440 IRFP440R IRFP441 IRFP442 IRFP443 IRFP450	2394# 2393# 2393# 2393# 2393# 2393# 2394	KB265F KB-269 KB269 KIA6210H KIA8210H KS555 KSA1010		MC1458SP1 MC1458SU MC1489AL MC1550G MC3458D MC3458P1 MC3458U	
C1685AQRS(T C1740SRK(Tra C1740SRQ(Tra C1860K(Trans) C1860K(Trans) C1860-L(Trans C1860-M(Trans C2005V(IC)	ans)85 2347 2347)2347 s)2347 1396	C4512(Trans) C4517(Trans) C4517A(Trans) C4518(Trans) C4531(Trans) C4542(Trans) C4544(Trans) C4544(Trans)	54 2339 2339 2353 2354# 376# 2337	EE-SJ3W-B EE-SM3B EK14-F5 EM02BMV EP16X34 EP84X34 EQ801-09 EQB01-09S	3103 3101 586 125 555A 1785 5073A 5073A	GBU6J GBU6K GBU6M GE-528 GI850 GI851 GI852 GI854		IRFP450F1 IRFP451 IRFP451F1 IRFP452 IRFP453 IRFP453F1 IRFP552F1 IRFZ14	2390	KSA1010-Y KSC1008-R KSC1008-Y KSC1061 KSC1061-B KSC1061-C		MC3470A MC3470AP MC7809CT MC14538BCL MC33078D MC33078P MCT2200 MCT2200Z	3470 ♦ 3470 ♦ 1910 4538B 891SM 891M 3041
C2023(Trans) C2238-0(Trans) C2238-40(Trans) C2238-40(Trans) C2238-40(Trans) C3089 C3089 C3089M(Trans)	s)375 375 s)2408 2348 2348	C4557(Trans) C4557C(IC) C4559C(IC) C4570C(IC) C4570G(IC) C4575(Trans) C4622(Trans) C4682(Trans)	2348 778A 78A 891M 891SM 2314 2312 2337	EQB01-11Q(ZD) EQB01-11QV ERA15-01V3 ERA18-04 ERA22-04V3 ERA2206 ERC62-004 ERC80-004	5074A 5074A 552 552 552 6083 6083#	GI856 GI910 GI911 GI912 GI914 GI916 GI917 GL451		IRFZ15 IRFZ20 IRFZ20F1 IRFZ22 IRFZ22F1 IRFZ30 IRFZ32 IRFZ34	2390 2389	KSC2001 KSC2001-O KSC2001-Y KSC2316 KSC2316V KSC2316Y KSC2328AY KSC2333-O KSC2333-R	293 293 293 31 31 31 11• 51	MCT2201 MCT2201Z MCT2202 MCT2202Z MH1203A02 MH1203B04 MH1203B06 MH1203B07 MH1203B08	
C3090 C3090L(Trans) C3090M(Trans) C3305(Trans) C3307(Trans) C3312(Trans) C3312R(Trans)	2348	C4064(Tails) C6091 C6091G(HEP) C9302 CD22402 CD22402E CIC5106 CIC5107	816§ 816§ 6246# 7049 7049 2051 2050	ESGB01-08 ESGB01-09 ESPA05-30 ET400(Trans) EW16X9 EW16X50 EW84X0540 EW84X255	5043# 544 527A 2348 • 555A 555A 891SM •	GL4936 GLV451 GMB01 GMB01L GSTU4030 GSTU4035 GSTU6030 GSTU6035 GSTU6040	30994 5194 5194 385 385 385 385	IRFZ40 IRFZ40 IRFZ42 IRFZ44 IRFZ45 IT4B42 IT76	2389 2389 2389 2389 5332	KSC2682-O KSC2682-Y KSC3552-W KSC3552-N KSC3552-O KSC3552-P KSC3552-R	373 373 373 373 2348 2348 2348 2348	MH1203B12 MH1203B14 MH1203B15 MH1203C01 MH1203E01 MH1203F01 MH1203F02 MH1203G01	
C3370(Trans) C3449(Trans) C3449(Trans) C3449M(Trans) C3450(Trans) C3450M(Trans) C3450M(Trans) C3458M(Trans) C3458K(Trans)	2348 2348 2348 2348 2348 2348 2348 2348	CIC9193 CS298 CS298MV D3SBA10 D3SBA20 D5S3M D5S3M D25A		EW84X576 EX0022TA EX0042TAZZ EX0043TAZZ EX0045TA EX0092CEZZ EX0094CEZZ EX0102CEZZ		GSTU8030 GSTU8035 GSTU8040 GSTU10035 GSTU10035 GSTU10040 GSTU15018	386 386 386 386 386 386 386 386	IT86 IT88 IT315 IT710 IT715 IT810 IT815 ITTA75902P	56010# 56010# 56006# 56010# 56010#		291 297 297 297 2302 2331 2331 2324#	MH1204A02 MH1204C01 MH1204C02 MH1204E01 MH1221E06 MJ12022	
C3458L(Trans) C3458L(Trans) C3458M(Trans) C3459 C3459L(Trans) C3459M(Trans) C3460	2348 2348 2348 2348 2348	D25B		EX0586CEZZ EX0592CEZZ F1-02 F1-04 F1-06 F5J F5KQ30	139A ◆	GZS2.7 GZS2.7 GZS3.0 GZS3.3 GZS3.6 GZS3.9 GZS4.3	5000A 5002A 5002A 5005A 5005A 5006A 5007A 5008A	IX1077CE IX1078CE IX1705CE IX1712CE	7058 7065 7054 7010 7010	KTA200 KTA200Y KTA950-Y(TA) KTA1015-Y(TA) KTA1162S KTA1273 KTC941TM			2319 2319 55 2311 2311 2354 2354#

MK4027J-4 through SK10427									Additions/Change				
To Be Replaced	ECG Replacement		ECG Replacement	To Be Replaced	ECG Replacement	To Be Replaced	ECG Replacement	To Be Replaced	ECG Replacement	To Be Replaced	ECG Replacement	To Be Replaced	ECG Replacement
MM74C73N	2104 2104 6419 74C02 74C08 74C10 74C20 74C73	NJM79L18A NJM79L24A NJM79M05A		RG4LFM1 RGP30GJ RGP5080 RGP5100 RH-1X1077C RH-1X1078C RH-1X1705C RH-1X1712C	ZZ7065 ZZ7054 ZZ7010	SDT5005 SDT5006 SDT5007 SDT5008 SDT5009 SDT5010 SDT5011 SDT5012	2347	SK74C373 SK74C374 SK74C901 SK74C903 SK74C904 SK74C922 SK74C923	74C373 74C374 74C901 74C902 74C903 74C904 74C922 74C923	SK10055 SK10058 SK10061 SK10070 SK10075 SK10076 SK10080	1924 1941 778SM 922SM 928SM 943SM 944 1709	SK10210 SK10211 SK10212 SK10213 SK10214 SK10215	
MM74C74N MM74C76N MM74C85N MM74C90N MM74C154N MM74C161N MM74C164N	74C74 74C76 74C85 74C90 74C154 74C161 74C164	NJM79M05FA NJM79M06A . NJM79M06FA NJM79M08A NJM79M08FA NJM79M12A NJM79M12FA NJM79M15FA		RH-DX0214C RH-DX0255C RH-DX0259C RH-DX0302C RH-DZ0009Y RH-EX0002A RH-EX0024G	EZZ558 EZZ5330♦ EZZ558 BEO544 EZZ5021T1 AZZ142A	SDT5013 SDT5014 SDT5501 SDT5503 SDT5504 SDT5506 SDT5507 SDT5507		SK74C925 SK74LS01 SK74LS13 SK74LS28 SK74LS47 SK74LS47 SK74LS48 SK74LS48	74C925 74LS01 74LS13 74LS28 74LS47 74LS47 74LS48 74LS55	SK10084 SK10085 SK10086 SK10087 SK10088		SK10219 SK10220 SK10221 SK10223 SK10226 SK10230	
MM74C174N MM74C175N MM74C192N MM74C193N MM74C221N MM74C925N MM80C97N MM80C98N		NJM79M15FA NJM79M18A NJM79M18FA NJM79M24A NJM79M24FA NJM431L NJM1458 NJM1458	959 959# 971	RH-EX0042T, RH-EX0043T, RH-EX0045T, RH-EX0049T, RH-EX0099C RH-EX0094C RH-EX0102C	AZZ5011A AZZ142A EZZ5009A AZZ5011T1 EZZ5006A EZZ5021A	SDT5509 SDT5511 SDT5512 SDT5513 SDT5514 SDT7401 SDT7402 SDT7403		SK74LS145 SK74LS148 SK74LS247 SK74LS348 SK74LS353 SK74LS353 SK74LS378 SK74LS398	74LS145 74LS148 74LS247 74LS348 74LS352 74LS353 74LS378 74LS398	SK10089 SK10090 SK10091 SK10092 SK10093 SK10094 SK10095	2341 2342 2343 2344 2361 2362 2402 2403	SK10234 SK10239 SK10241 SK10242 SK10243 SK10244	
MM2102AN-4L MM3005 MM3006 MM3007 MMBTA05L MMBTA06L MMBTA06LT1 MMBTA20L	2347 2347 2347 2410	NJM3524D NJM4151 NJM4560D NJM4560M	891SM •890891SM891SM891SM891SM891SM891SM8960	RH-EX0116C RH-EX0130G RH-EX0145C RH-EX0154C RH-EX0156C RH-EX0163G RH-EX0223C RH-EX0223C	EZZ5009A EZZ5015A EZZ5015A EZZ5022A EZZ5021T1 EZZ5014A	SDT7411 SDT7412 SDT7413 SDT7414 SDT7415 SDT7416 SDT7417	2347 2347 2347 2347 2347 2347 2347 2347	SK74LS642 SK74LS645 SK3242 SK3512	74LS399 74LS641 74LS642 74LS645 816§ 2347 4501	SK10097 SK10098 SK10099 SK10100 SK10101 SK10102 SK10103 SK10104		SK10246 SK10247 SK10252 SK10253 SK10254 SK10255 SK10256 SK10257	1681 1686 1652 6118 5329 5417 5418
MMBTA55L MMBTA56L MMBTA56LT1 MMBTA70L MOC8020 MP5306 MPC2005V	2411	NJM7805FA NJM7806A NJM7806FA		RH-EX0296C RH-EX0397C RH-EX0398C RH-EX0413G RH-EX0586C RH-EX0592C RH-FX0018C RH-IX1077CE	EZZ5011T1 EZZ5097A EZZ5013A EZZ5022A EZZ139A♦ EZZ142A EZZ3098	SDT7419 SDT9001 SDT9002 SDT9003 SDT9004 SDT9005 SDT9006		SK4513B SK4521B SK4522B SK4526B SK4531B SK4539B SK4547B	4513B 4521B 4522B 4526B 4531B 4539B 4547B 4547B	SK10105 SK10106 SK10107 SK10108 SK10109 SK10110 SK10112		SK10258 SK10259 SK10260 SK10261 SK10262 SK10265 SK10266	5419 5471 5472 5474 5476 56010 56015 56016
MPN3401 MPN-3401 MPS5305 MPS5307 MPS5308	555A	NJM7815FA NJM7818A NJM7818FA NJM7824A NJM7824FA NJM7905A NJM7905FA	968# 958 958# 972 972#	RH-IX1078CE RH-IX1705CE RH-IX1712CE RL850 RL851 RL852 RL854 RL856	ZZ7054	SDT9008 SDT9009 SDT9010 SDT9011 SDT85501 SDT85502 SDT85503	2347 2347 2347 2347 2347 2347 2347 2347	SK4553B SK4558B SK4562B SK4568B SK4569B SK4583B SK4597B	4553B 4558B 4562B 4568B 4568B 4583B 4583B 4597B	SK10114 SK10115 SK10116 SK10117 SK10118 SK10119 SK10120 SK10121		SK10268 SK10269 SK10271 SK10273 SK10274 SK10276 SK10278 SK10279	
MS1002 MS1003 MS1004 MS1045 MTG8N50E MTG9N50E		NJM7906FA NJM7908A NJM7908FA NJM7912A		RM-2AVTA RS3FS RU-2M(V)TA RU2N RU4B RU4C		SDT85506 SDT85507 SDT85508 SFC2305 SFR101 SFR102 SFR103 SFR104	2347 2347 2347 1928 569♦ 569♦ 569♦	SK9150 SK9306	5618 5618 7439 555A 548 1748 3098 3092	SK10122 SK10123 SK10124 SK10125 SK10126 SK10127 SK10128 SK10129	2349 2350 2357 2358 2380 2381 2381 2382 2384	SK10280 SK10281 SK10282 SK10283 SK10284 SK10285 SK10286 SK10287	2051 2052 2055 2063 2064 2064 2065 2070 2071
MTH7N50		NJM7918FA NJM7924A NJM7924FA NSD3020C NSD3030C NSD3040C NSDU01	959#	\$180D \$181D \$380D \$381D \$483T(CEB) \$627T(ECB) \$628T(ECB) \$629T(ECB)		SFR105 SFR151 SFR152 SFR153 SFR154 SFR155 SFR201 SFR202	569♦ 569 569 569 569 569 569 569	SK9871 SK9876 SK9880 SK9886 SK9901	1777 1778 1789 1796 1807 1821 1589 61MP	SK10130 SK10131 SK10132 SK10133 SK10134 SK10136 SK10137	2386 2388 2390 2392 2322 2324 2324 2326 2327	SK10288 SK10289 SK10290 SK10291 SK10292 SK10293 SK10294 SK10295	2072 2073 2074 2075 2075 2076 2077 2078 2078
MTP2N25 MTP2N35 MTP2N40 MTP3N40 MTP10N05 MTP15N05 MTP15N06	2391 2380 2380 2391 2390 2390 2389 2389	NSF8AT NSF8BT NSF8DT NSF8GT NSC6025-6	581# 581# 581# 581#	\$637T \$690T(CEB) \$763T \$2055AF \$3002(HEP) \$3010(HEP) \$3011(HEP)		SFR203	569 569 569 569 569 569 569	SK9931 SK9932 SK9933 SK9939 SK9940 SK9943	93MCP 129MCP 153MCP 590 591 594 595	SK10141 SK10142		SK10296 SK10297 SK10298 SK10299 SK10300 SK10301 SK10302	2147 2164 2207 2333 2337 2339 2332 2332 2385
MTP25N05 MTP25N06 MTP30N05E MTP30N06E MTP45N05E MTW8N50E MTW10N40E MTW14N50E		NST545 P5D(SMD) P30N05E(FET) P30N06E(FET) PA3005 PBYR735 PBYR735F PBYR740		S6030		SG2011 SG2012 SG2013 SG2014 SG2015 SG2801N SG2802N		SK9946 SK9947 SK9948 SK9949 SK9950 SK9951	1859 1678 1685 1689 1705 1710 1711	SK10147 SK10148 SK10149 SK10150 SK10151 SK10152		SK10304 SK10305 SK10309 SK10310 SK10311 SK10312 SK10313 SK10314	289AMP
MTZ2.7 MTZ3.0 MTZ3.3 MTZ3.6 MTZ3.9 MTZ5.1 MTZ5.1B(TA)	5002A 5004A 5005A 5006A 5007A 5010A	PBYR740F PBYR745 PBYR745F PBYR1035 PBYR1040 PBYR1040F PBYR1040F	6083# 6083 6083 6083 6083 6083#	SBL2030PT SBL2040PT SBLF1030 SBLF1040 SBLF2030PT. SBLF2040PT. SBLF3030PT. SBLF3040PT.	6087# 6087# 6083# 6083#	SG2811N SG2812N SG2813N SG2814N	2019 2016 2017 2018 2019 1720 2354 2354	SK9961 SK9962 SK9963 SK9964		SK10155 SK10156 SK10158		SK10315 SK10316 SK10317 SK10318 SK10320 SK10321 SK10322 SK10324	
MTZ6.8	5014A 5015A 5016A 5018A 5019A 5020A	PBYR1045F PC7812HF PC77805HF PMBD914 Q2025Z6 Q4006L5 Q4025Z6 Q6025Z6	6083# 966# 593 5645 5645	SC141N SC142B SC143B SC143D SC143E SC143M SC160E SC160M		SGSF564 SGSF565 SGSIF464 SGSIF465 SGSP474 SGSP479	2354 2354 2354# 2394 2393	SK9971 SK9975 SK9976 SK9977 SK9978 SK9980 SK9981	5021T1 553 615A 1615 1700 1704 2304	SK10165 SK10166 SK10168 SK10169		SK10325 SK10326 SK10327 SK10328	
MTZ18	5027A 5029A 5002A 5004A	QA205D	5010T1 5016A♦ 5073A 5305♦ 890 1910	SCL-11Z SCL-11Z2B SD-1S2692 SD103A SD103C SDT3421 SDT3422		SJ2822 SJ2914 SJ6257 SJ7289 SJE2789 SJF1014	61 198 165 130 386 262 2353 74C02	SK9995 SK9996		SK10174 SK10175 SK10176 SK10177 SK10178 SK10180 SK10181	1884	SK10334 SK10335 SK10336 SK10337 SK10400 SK10401 SK10402 SK10403	3093 3095 3097 3096 3331 5440
MTZJ5.6	5011A 5011T1 5013T1 5013T1	RCA1B05	388 54 54 54 54 55	SDT3424 SDT4301 SDT4302 SDT4303	2347 2347 2347 2347 2347 2347	SK74C04 SK74C10 SK74C20 SK74C30	74C04 74C10 74C20 74C30 74C32 74C32 74C48 74C73 74C73	SK10007 SK10008 SK10010 SK10012 SK10013 SK10016	1322 1701 1613 1716 1702 1703 1714M 1715	SK10184 SK10185 SK10186 SK10187 SK10188	15008 15009 15019 15020 15021 15022 15022 2057	SK10404 SK10405 SK10406 SK10407 SK10408 SK10409 SK10410 SK10411	3094 5536 5538 5539 5540 56030 56031
MTZJ12C	5021T1 5022A 5041A 5042A 74LS123 ADA7072	RCA32C RD12EB3 RFH10N45 RFH10N50 RFP1N35 RFP1N40 RFP2N12 RFP2N15	55	SDT4308 SDT4309 SDT4310 SDT4311 SDT4312 SDT4451		SK74C93 SK74C95 SK74C107 SK74C151 SK74C154 SK74C157	74C93 74C95 74C107 74C151 74C154 74C157 74C161 74C164	SK10022 SK10023 SK10028 SK10029 SK10031 SK10033 SK10036	1717 1718 1726 1736 1739 1745 1752 1753	SK10191 SK10193 SK10194 SK10195 SK10196 SK10197 SK10198		SK10412 SK10413 SK10414 SK10415 SK10416 SK10417 SK10419	56028 5610 5701 5705 5710 5720 5720 5711 5721
NJD6513 NJD6514	2013 2014 1906 960#	RFP4N05 RFP4N06 RFP4N35 RFP4N40 RFP15N05	2390 ♦ 2390 ♦ 239123912389 ♦	SDT4454 SDT4455 SDT4456 SDT4483 SDT5001 SDT5002 SDT5003	2347	SK74C173 SK74C174 SK74C175	74C173 74C174 74C175 74C192 74C193 74C221 74C240 74C244	SK10042 SK10044 SK10048 SK10049 SK10050 SK10051	1760 1762 1906 1907 1908 1909 1920 1923	SK10200 SK10201 SK10202 SK10203	4929 4934 4935 4950	SK10420 SK10421 SK10422 SK10423 SK10424 SK10425 SK10426 SK10427	5712 5722 5912 5913 5916 5916 5917 5920

Additions/Changes SK10428 through ZS106

Addition	Additions/onlinges							tinougi	25100				
To Be Replaced	ECG Replacement	To Be Replaced	ECG Replacement	To Be Replaced	ECG Replacement	To Be Replaced	ECG Replacement	To Be Replaced	ECG Replacement	To Be Replaced	ECG Replacement	To Be Replaced Re	ECG placement
SK10429 SK10430 SK10431 SK10432 SK10434 SK10435		SK10506 SK10507 SK10508 SK10510 SK10511 SK10512	1896 1897 1898 1899 1865 576 577 6241	SR1004 SR1020 SR1030 SR1035 SR1040 SR1045	6083 6083 6083	TA7267BP TA7267P TA7291S TA7299P TA7806S TA7806S TA7808S TA7810S	7064 7064 7043 1830 960# 962# 964# 1932#	TG2SC3402 TG2SD313 TG840M TIC253B(T021: TIC253D(T021: TIC253E(T021: TIC253M(T021: TIC263B(T021:	5554# 8)56033 8)56033 8)56033 8)56033	UFN613 UFN720 UFN721 UFN722 UFN723	2391♦ 2391♦ 2391♦ 2391 2391 2391 2391 2391 597	VHITA7348P/-1 VHITA8703S/-1 VHITDA3569/-1 VHITDA7052/-1 VHITDA8305A-1 VHIUPC1406HA1 VHIUPC1513H-1 VHSS6785GLB28	7057 7048 7051 7047 I1792 1787 E5424#
SK10439 SK10440 SK10441 SK10442	5702 5703 5704 3170 3171 3181 3182 6362	SK10519 SK10520 SK10522		SRA840 SRM-8ZG SRP100J SRP100K SS8050		TA8200AH TA8200H TA8201AK TA8210AH	.966# .968# .958# .972# .7068 .7068 .1832◆ .7041	TIP502 TIP541 TIPL760 TIPL760A	8)56033 2347 2347 2347 2333 2333	UHVP804 UHVP806 ULN2011A ULN2012A ULN2013A ULN2014A ULN2015A UNF541	598 598 2011 2012 2013 2014 2014 2015 2389	VHSS6785GLBIE VS2SA9688//-1. VS2SC383-WT-1 VS2SC1827//1E. VS2SC2021-Q-1. VS2SC2238Y/-1. VS2SC2610Y/-1 VS2SC2611//-1	398 85 291 16♦ 375 399 157
SK10447 SK10448 SK10449 SK10450 SK10451		SK40195B SK72390 SK74142 SK74144 SK74147 SK74158		STK4034II STK4046II STK4046X STK4046XI STK4231II STK5331	7032 7029 7035◆	TA8211AH TA8211H TA8601B TA8601BN TA8601BN-F, TA8601BNV . TA8601CN	7065 A-17065 7065 ↑	TIS98(CBE) TIS99(CBE) TL431ACLP TL431CLP TL431CLPM TLC555CD TLG103	999 999 955SM 3014A	UPC259C UPC259G UPC1263C2. UPC1316C UPC1488H UPC2005V UPC4556C UPC4556G	891SM 891SM 7055 7055 7056 1396 891M♦	VS2SC3886A/1E VS2SC4544LB2E VS2SD1554//1E VS2SD2095//1E VS2SD2125//1E VSDTA124ES/-1. VSDTC144F//-1 VSK62	376# 2331 2331 2358 2358 2359♦ 6083
SK10450 SK10457 SK10458	987SM 978SM 978C 975SM 6809E 6106 6107 5667A	SK74182 SK74221 SK74251 SK74290 SK74293 SK74365 SK74366		STK5342 STK5346 STK5352 STK5364 STK5461 STK5468		TA8654 TA8654N TA8680AN TA8703 TC1T013170. TD62001P		TLG143 TLP621-1-GB TLP631 TM2SC1685 TM2SC1686 TM341M-L TM361M-L TM541M-L		UPC4559C UPC4560C UPC4560G UPC4570C UPC4570G UPC4572C UPC4572G UPC4572G UPT211		VSK63 VSK64 VSK1020 VSK1035 VSK1045 W005G W01G W02G	6083 6083 6083 5304 5304
01(10-107	5668A 5669A 468 469 487 487 5620 5671	SK74368 SK75454B SKMV95A SKT240/04 . SKT240/08 . SKT240/12 .		STD5474 STK5476 STK5477 STK5486 STK6960 STK6961 STK7348		TDA1074 TDA1074A TDA1074AN.	2012 2033 1 2033 2033 7072 7072 7072 1804	TM561M-L TM841M-L TM861M-L TM1041M-L TM1241M-L TM1261M-L TM1641M-L		UPT214 UPT611 UPT612 UPT613 UPT614 USD635	2347 2347 2347 2347 2347 2347 2347 6083	W04G W06G W08G W10G X1077CE X1078CE X1705CE XGS7001	5305 5306 5307 7058 7065 7054 2347
SK10470 SK10471 SK10472 SK10473 SK10474 SK10475		SLB530 SLB540 SM-1A-02FF SM-1A-04FF SM-1A-04FF SM-1A-06FF SM-1A-06FF		STK7404 STK7406 STK7408 STK7563A STRD3015		TDA7052 TDA7052N TDA7056 TDA7056U TDA7350 TDA8305		TM1641S-L TM1661M-L TM1661S-L TN3TB03001 TN7TC05001 TO680 TP3TC03001 TP7TC05001	56017# 5671 2355 2416 1394 2358	USD740 USD745 UTZJ5.1 UTZJ5.1B	6083 6083 6083	XGS7002 XR4151CP XRA6418N YTF521 YTF523 YTF533 YTF533 YTF541	2389 2389 2390
SK10476 SK10477 SK10478 SK10479 SK10481 SK10482 SK10483	7007 7008 7009 7010 7011 7012 7013 7014	SM-1XH06 . SM-1XM02 . SM-1XM04 . SM-1XM06 . SM-1.5-02F	569	STRS6301A. STRS6301-LI T1P501 T1P502 T1P541 T1PL760 T1PL760		TDA8305AN. TDA8305N TDB0139DP. TDB0139FP TEA5581 TEA5581N		TP10W45FX TR01059-5 TR02059-5 TS6022(BCE) TSC7106CPL TT2SA950 TVR-06G-623 TVR10G		UTZJ6.2 UTZJ6.2B UTZJ6.8 UTZJ8.2 UTZJ9.1	5011T1 5013A 5013T1 5014A 5016A 5018A 5019A	YTF543 YTF610 YTF611 YTF612 YTF613 YTF622 YTF623 YTF9450	2389 2391 • 2391 • 2391 • 2391 • 2391 2394
SK10484 SK10485 SK10486 SK10488 SK10489	7015 7016 7017 7019 7029 1645 1646 1647	SM-3-04FR SM-3-06FR SN74LS47N SN74LS48N SN74LS113		T9G0041203 T10W80HDT T10W80HFX T63A011790	2348 2348 2407	TF321M-A TF341M TF341M-A TF361M TF361M-A TF521M TF521S	5440	TVSQA205D TVSQA206B TVSQA208C TVSQB109SA. TVSRM11B TVSTC4066BP TVSTC4069UB TYDTC114ES.	5012A 5016A♦ 5073A 125 4066B P4069 2355	UTZJ12B UTZJ18 UTZJ20 UTZJ22 UTZJ27 UTZJ30	5021T1 5021T1 5027A 5027A 5030A 5030A 5033A 5035A	YTFP451 YTFP452 YTFP453 Z5.18 Z9.18 Z9.1BL Z11BL Z11BMTA	2394 2394 5010A 5018A 5018A 5020A
SK10496 SK10497 SK10498 SK10500 SK10501		SR802 SR803 SR804 SR820 SR830 SR835 SR840	6083	T83A028127 T83A028140 T86A T87A02412K T2806B T2806D	2408 2408 2408 116 2408 5633 5635	TF561M TF821M TF821S TF841M TF861M TFH341S TG2SB764	5556# 5424# 383	TZ1061 UA431AWC UA431C UA494PC UA715HC UF5404J UFN512 UFN543	2382	UTZJ36 UTZJ39 VHD1SS82/// VHIHA17182' VHIM5223P// VHISTRS630 VHITA7056/-		Z24BLTA	5035A 524V13 524V13
SK10504	1895	SR845	6083	TA7267	7064	TG2SC536KN	l85	UFN610	2391◆	VHITA7347/-	11873		

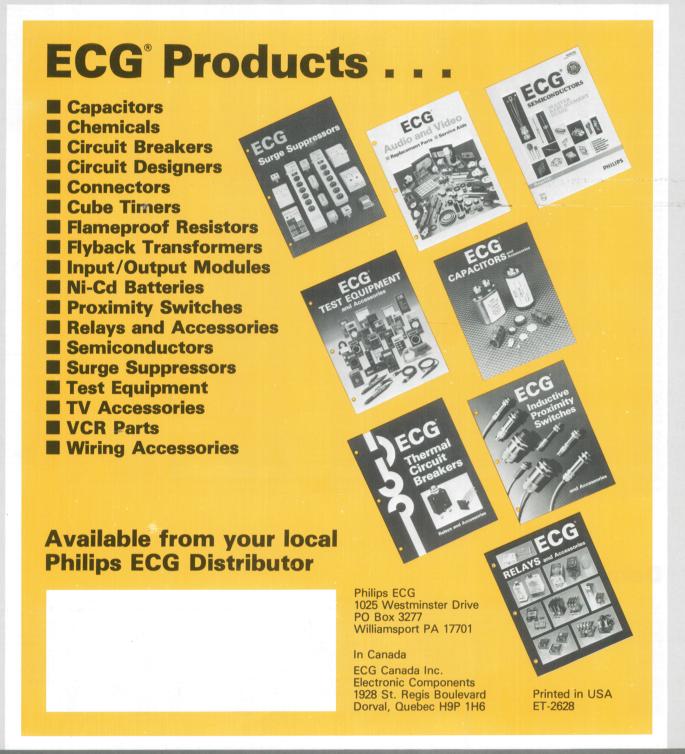
Deletions

To Be ECG Replaced Replacement	To Be ECG Replaced Replacement	To Be ECG Replaced Replacement	To Be ECG Replaced Replacement	To Be ECG Replaced Replacement	To Be ECG Replacement	To Be ECG Replaced Replacement
1N3948 137A 2N2468 102 2N2469 102 2N4416(S,D,G) 312 2N5114 466 2N5543 459 2N5544 459 2N6436 327	2SC371-0 289A 2SC496(O) 295 2SC789-0 152 2SC828O 85 2SC1883O 375 2SC2458-0 85 2SU26252855 280 + 281(OP) 2SD1069 379	117-9(HEATHKIT)185 + 184(CP) 152-042-9-001(Zener)5072A 264P1 '02020558 354(CHRYSLER)723 433-1 (Sylvania)123A 1151BLUE(G.E.)749 1820-08444025B 1862-1(RCA)1790	121661129 + 128(CP) 171033-4153 + 152(CP) 7502601290A + 289A(CP) A835(Trans)240 BD262(Carlington)254 BD262(Aparlington)254 BD2662A(Darlington)254 BD266BD227185 + 184(CP) BYT79-300624	D79 427/2828 D1069(Trans) 379 ERZ08A3K101 601 ERZ15A3S251 601 ERZ15A3S2551 601 GL3401 1471 HVPR12-16 517 IO3A98M090 1902	LAS723B 923 LM340AK-15 1918 MLE5850 379 MLE5851 379 MLE5852 379 NSD206 296 RGP-10A 552 RGP-10B 552	SK7481
2N6437 327 2N6438 327 2SA835 240 2SA2060 293 2SA2060P 293 2SA2060Q 293	13-28336-20185 + 184(CP)		BYT79-400 6241 BYT79-500 6241 BZY208-800 555 C310 2828 C697 427/2828 C697A 427/2828	1902 X1066AF 1354 KB296 601 L78M09-SA 1902 L120AB 936 LAS723 923	RGP-10D 552 RH-1X1066AFZZ 1354 RH-IX1066AFZZ 1354 S-60W 1354 S-60W 1354 S-60W 1354 S-60WA 1354	X1066AF1354

Special Notes

- # When replacing this part it is necessary to use the insulating hardware supplied.
- Original part had metric threads.

- May not be an exact mechanical or electrical equivalent. However, it will provide an acceptable substitute in the majority of typical applications.
- Type is obsolete and no longer available from Philips ECG. Cross reference is retained for information only.



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